



**INSTRUCTIONS**  
**Texas Commission on Environmental Quality**  
**Form OP-UA16**  
**Solvent Degreasing Machine Attributes**

**General:**

This form is used to provide a description and data pertaining to all solvent degreasing machines with potentially applicable requirements associated with a particular regulated entity number and application. Each table number, along with the possibility of a corresponding letter (i.e., Table 1a, Table 1b), corresponds to a certain state or federal rule. If the rule on the table is not potentially applicable to a solvent degreasing machine, then it should be left blank and need not be submitted with the application. The following solvent degreasing machines are considered off-permit sources and do not need to be listed:

- A. In counties not affected by title 30 TAC Chapter 115, remote reservoir or immersion type cold solvent degreasers which do not use solvent with methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-Trichloroethane, carbon tetrachloride, chloroform, or any combination of these solvent in a total concentration greater than or equal to 5% by weight.
- B. In counties affected by 30 TAC Chapter 115, remote reservoir cold solvent cleaners which use solvents with a tvp equal to or less than 0.6 psia measured at 100 degrees Fahrenheit, which do not use solvents with methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-Trichloroethane, carbon tetrachloride, chloroform, or any combination of these solvent in a total concentration greater than or equal to 5% by weight, and which have a drain area of less than 16 in<sup>2</sup>, provided waste solvent is disposed of in enclosed containers.

If the codes entered by the applicant show negative applicability to the rule or sections of the rule represented on the table, then the applicant need not complete the remainder of the table(s) that corresponds to the rule. Further instruction as to which questions should be answered and which questions should not be answered are located in the “Specific” section of the instruction text. The following is included in this form:

**Table 1:** Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter E: Degreasing Processes

**Table 2a - 2c:** Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart T: National Emission Standards for Halogenated Solvent Cleaning

The application area name from Form OP-1 entitled, “Site Information Summary” must appear in the header of each page for the purpose of identification for the initial submittal. The date of the initial form submittal must also be included and should be consistent throughout the application (MM/DD/YYYY). Leave the permit number blank for the initial form submittal. If this form is included as part of the permit revision process, enter the permit number assigned by the TCEQ, the area name (from Form OP-1), and the date of the revision submittal.

Unit attribute questions that do not require a response from all applicants are preceded by qualification criteria in the instructions. If the unit does not meet the qualification criteria, a response to the question is not required. Anytime a response is not required based on the qualification criteria, leave the space on the form blank.

Notwithstanding any qualification criteria in the form instructions or information provided in other TCEQ guidance, the applicant may leave an attribute question blank (or indicate “N/A” for “Not Applicable”) if the attribute is not needed for the applicable requirement determinations of a regulation for a unit.

In some situations, the applicant has the option of selecting alternate requirements, limitations, and/or practices for a unit. Note that these alternate requirements, limitations, and/or practices must have the required approval from the TCEQ Executive Director and/or the U.S. Environmental Protection Agency Administrator before the federal operating permit application is submitted.

The Texas Commission on Environmental Quality (TCEQ) requires that a Core Data Form be submitted on all incoming registrations unless all of the following are met: the Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and no core data information has changed. The Central Registry, a common record area of the TCEQ which maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred as “core data.” The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the Customer Reference (CN) number and the Regulated Entity (RN) number. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed. If this is the initial registration, permit, or license for a facility site, then the Core

Data Form must be completed and submitted with application or registration forms. If amending, modifying, or otherwise updating an existing record for a facility site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ Web site at [www.tceq.state.tx.us/nav/permits/](http://www.tceq.state.tx.us/nav/permits/).

**Specific:**

**Table 1: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter E: Degreasing Processes**

★ *Complete Table 1 only for solvent degreasing machines located in a county subject to 30 TAC Chapter 115 and using a volatile organic compound (VOC).*

**UNIT ID NO.:** Enter the identification number (ID No.) for the solvent degreasing machine (maximum 10 characters) as listed on Form OP-SUM entitled, "Individual Unit Summary."

**SOP/GOP INDEX NO.:** Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). General operating permit (GOP) applicants should indicate the appropriate GOP index number in this column from the applicable GOP table (SSS-FF-XXX). Applicants should complete all applicable GOP attribute information before determining the GOP index number. For additional information relating to SOP and GOP index numbers please refer to the TCEQ guidance document entitled "Federal Operating Permit Application Guidance Document."

**SOLVENT DEGREASING MACHINE TYPE:** Select one of the following options for the solvent degreasing machine type as pertains to 30 TAC Chapter 115. Enter the code on the form.

For SOP applications:

<u>Code</u>	<u>Description</u>
CONV	Conveyorized (vapor or cold) cleaning machine
VOT	Open-top vapor cleaning machine
COLD	Cold solvent cleaning machine
RRC-S	Remote reservoir cold solvent cleaning machine
550-	Degreasing operations located on a property which, when uncontrolled, can emit a combined weight of VOC less than 550 pounds in any consecutive 24-hour period [for degreasing operations located in Gregg, Nueces, or Victoria County <u>and</u> claiming exemption 30 TAC § 115.417(b)(3)]

For GOP applications:

<u>Code</u>	<u>Description</u>
RRC-G	Remote reservoir cold solvent cleaning machine
OTHER	Other than remote reservoir cold solvent cleaning machine

*Note: Open-top vapor or conveyorized degreasing machines subject to 30 TAC Chapter 115 and degreasing machines using halogenated solvents do not qualify for a GOP.*

**ALTERNATE CONTROL REQUIREMENT (ACR):** If the TCEQ Executive Director has approved an ACR as allowed under 30 TAC § 115.413, enter "YES". Otherwise, enter "NO".

**ALTERNATE CONTROL REQUIREMENT ID. NO.:** If an ACR allowed under 30 TAC § 115.413 is used, then enter the corresponding ACR unique identifier for each unit (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the ACR approval letter in the table column. The unique identifier and/or the date of approval letter is contained in the compliance file under the appropriate account number. Otherwise, leave this column blank (GOP applicants must leave this column blank).

★ **Complete the Rest of Table 1 only if "Alternate Control Requirement" is "NO."**

★ Complete “Solvent Sprayed,” “Solvent Vapor Pressure,” Solvent Heated or Agitated,” “Parts Larger than Drainage,” “Drainage Area,” and “Disposal in Enclosed Containers” Only if “Solvent Degreasing Machine Type” is “COLD,” “RRC-S,” “RRC-G,” or “OTHER.”

SOLVENT SPRAYED: Enter “YES” if a solvent is sprayed. Otherwise, enter “NO.”

SOLVENT VAPOR PRESSURE: Select one of the following options for solvent vapor pressure (as measured at 100°F). Enter the code on the form.

For SOP applications:

<u>Code</u>	<u>Description</u>
0.6-	Solvent vapor pressure is less than or equal to 0.6 psia as measured at 100 degrees Fahrenheit
0.6+	Solvent vapor pressure is greater than 0.6 psia as measured at 100 degrees Fahrenheit

For GOP applications:

<u>Code</u>	<u>Description</u>
G0.6-	Solvent vapor pressure is less than or equal to 0.6 psia at 100 degrees Fahrenheit
G0.6+	Solvent vapor pressure is greater than 0.6 psia at 100 degrees Fahrenheit

SOLVENT HEATED: Enter “YES” if the solvent is heated to a temperature greater than 120°F. Otherwise, enter “NO.”

PARTS LARGER THAN DRAINAGE: Enter “YES” if any cleaned part for which the machine is authorized to clean are larger than the internal drainage facility of the machine. Otherwise, enter “NO.”

★ Complete “Drainage Area” only if “Solvent Degreasing Machine Type” is “COLD” or “RRC-S”, or if “Solvent Degreasing Machine Type” is “RRC-G” and “Solvent Vapor Pressure” is “G0.6-.”

DRAINAGE AREA: Select one of the following options for drainage area. Enter the code on the form.

<u>Code</u>	<u>Description</u>
16-	Area is less than 16 square inches
16+	Area is greater than or equal to 16 square inches

DISPOSAL IN ENCLOSED CONTAINERS: Enter “YES” if the waste solvent is properly disposed of in enclosed containers. Otherwise, enter “NO.”

★ Complete “Solvent/Air Interface Area” only if “Solvent Degreasing Machine Type” is “CONV.”

SOLVENT/AIR INTERFACE AREA: Select one of the following options for solvent/air interface area as pertains to 30 TAC Chapter 115. Enter the code on the form.

<u>Code</u>	<u>Description</u>
20-	Solvent/air interface is less than 20 square feet
20+	Solvent/air interface is <u>greater than or equal to</u> 20 square feet

★ Complete “Emission Control Combinations” only if “Solvent Degreasing Machine Type” is “CONV” or “VOT.”

EMISSION CONTROL COMBINATIONS: For solvent degreasing machines subject to the requirements of 30 TAC Chapter 115, select from the following options for emission control combinations. If more than one control technique is used, list each control technique on additional lines.

<u>Code</u>	<u>Description</u>
FBR	Freeboard with the ratio specified in 30 TAC § 115.412 (b)(2)(D)(I) or 30 TAC § 115.412(a)(2)(D)(I)
CHILL	Refrigerated chiller achieving 85% or greater control of VOC emissions
ENCL	Enclosed design

CADS Carbon adsorber with ventilation greater than or equal to 50 cfm/ft<sup>2</sup> and exhausting less than 25 ppm of solvent volume averaged over one adsorption cycle

**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart T: National Emission Standards for Halogenated Solvent Cleaning**

★ *Complete for solvent cleaning machines using halogenated solvents.*

**UNIT ID NO.:** Enter the identification number (ID No.) for the solvent cleaning machine (maximum 10 characters) as listed on Form OP-SUM entitled, "Individual Unit Summary."

**SOP INDEX NO.:** Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please refer to the TCEQ guidance document entitled "Federal Operating Permit Application Guidance Document."

**SOLVENT TYPE:** Enter "YES" if the unit uses one (or any combination) of the following halogenated hazardous air pollutant (HAP) solvents: methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform in a total concentration greater than 5% by weight. Otherwise, enter "NO."

**SOLVENT CLEANING MACHINE TYPE:** Select one of the following options for the solvent cleaning machine type as it pertains to 40 CFR Part 63, Subpart T. Enter the code on the form.

<u>Code</u>	<u>Description</u>
INLN	In-line (vapor or cold) cleaning machine
CWCM	Continuous web cleaning machine
RRCWCM	Remote reservoir continuous web cleaning machine
CRRB	Non-immersion remote reservoir batch cold cleaning machine
CRRBIM	Immersion remote reservoir batch cold cleaning machine
CBAT	Batch cold cleaning machine other than a remote reservoir cold cleaning machine
VOTB	Open-top batch vapor cleaning machine
VBAT	Batch vapor cleaning machine other than open-top vapor
OTHER	Other solvent cleaning machine type

★ **Complete "Equivalent Methods of Control" only if "Solvent Cleaning Machine Type" is "INLN," "CWCM," "RRCWCM," "VOTB," or "VBAT."**

**EQUIVALENT METHODS OF CONTROL:** Enter "YES" if using equivalent equipment or procedures approved by the EPA Administrator, under 40 CFR § 63.469, to those prescribed for compliance within a specified paragraph of 40 CFR Part 63, Subpart T. Otherwise, enter "NO."

**EMOC ID NO.:** If an equivalent method of control (EMOC) has been approved, enter the corresponding EMOC unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the EMOC approval letter. The unique identifier and/or the date of the approval letter is contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

▼ **Do not continue if "Solvent Cleaning Machine Type" is "INLN," "CWCM," "RRCWCM," "VOTB" or "VBAT" and "Equivalent Methods of Control" is "YES."**

**CONSTRUCTION DATE:** Select one of the following options based on the commencement date of the most recent construction, modification, or reconstruction of the solvent degreasing machine. Enter the code on the form.

<u>Code</u>	<u>Description</u>
93-	Unit constructed, modified, or reconstructed on or before November 29, 1993
93+	Unit constructed, modified, or reconstructed after November 29, 1993

★ **Complete the remainder of Table 2a only if "Solvent Cleaning Machine Type" is "CRRB," "CRRBIM," or "CBAT." If "Solvent Cleaning Machine Type" is NOT "CRRB," "CRRBIM," or "CBAT," go to Table 2b.**

★ Complete “Cold Cleaning Emission Control” only if “Solvent Cleaning Machine Type” is “CRRBIM” or “CBAT.”

COLD CLEANING EMISSION CONTROL: For solvent degreasing machines subject to the requirements of 40 CFR Part 63, Subpart T, choose from the following codes to describe emission control. If more than one code is applicable, use additional rows to list each control technique.

<u>Code</u>	<u>Description</u>
FREBRD	Freeboard ratio is greater than or equal to 0.75
WATER	A water layer on the surface with thickness greater than or equal to 2.5 cm

★ Complete “Cold Cleaning Work Practice Alternative” if “Solvent Cleaning Machine Type” is “CRRB” or if “Solvent Cleaning Machine Type” is “CRRBIM” or “CBAT”, and “Cold Cleaning Emission Control” includes “FREBRD.”

COLD CLEANING WORK PRACTICE ALTERNATIVE: Enter “YES” if an alternative to the requirements of 40 CFR § 63.462(c)(1) - (8) have been approved. Otherwise, enter “NO.”

COLD CLEANING WORK PRACTICE ALTERNATIVE ID NO.: If a work practice alternative has been approved, enter the corresponding unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the approval letter. The unique identifier and/or the date of the approval letter is contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

★ Complete “Additional Emission Control” if “Solvent Cleaning Machine Type” is “CRRB” and “Cold Cleaning Work Practice Alternative” is “NO;” or if “Solvent Cleaning Machine Type” is “CRRBIM” or “CBAT”, and “Cold Cleaning Emission Control” includes “FREBRD” and “Cold Cleaning Work Practice Alternative” is “NO.”

ADDITIONAL EMISSION CONTROL: Choose from the following codes to describe emission control. If more than one code is applicable, use additional rows to list each control technique.

<u>Code</u>	<u>Description</u>
FHFD	Flexible hose or flushing device
AGTD	Air or pump-agitated solvent bath
BOTH	Flexible hose or flushing device and Air or pump-agitated solvent bath
NONE	None

▼ Continue only if “Solvent Degreasing Machine Type” is “INLN,” “CWCM,” “RRCWCM,” “VBAT,” or “VOTB.”

**Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart T: National Emission Standards for Halogenated Solvent Cleaning**

UNIT ID NO.: Enter the identification number (ID No.) for the solvent cleaning machine (maximum 10 characters) as listed on Form OP-SUM entitled, “Individual Unit Summary.”

SOP INDEX NO.: Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please refer to the TCEQ guidance document entitled “Federal Operating Permit Application Guidance Document.”

ALTERNATIVE STANDARD: Enter “YES” if complying with 40 CFR § 63.464 as an alternative to 40 CFR § 60.463. Otherwise, enter “NO”.

★ Complete “Solvent/Air Interface Area” only if “Solvent Cleaning Machine Type” is “VBAT” or “VOTB.”

SOLVENT/AIR INTERFACE AREA: Select one of the following options for solvent/air interface area as it pertains to 40 CFR Part 63, Subpart T. Enter the code on the form.

<u>Code</u>	<u>Description</u>
NONE	No solvent/air interface

- 13- Solvent/air interface area is less than or equal to 13 ft<sup>2</sup> (1.21 m<sup>2</sup>)
- 13+ Solvent/air interface area is greater than 13 ft<sup>2</sup> (1.21 m<sup>2</sup>)

★ Complete “Machine Cleaning Capacity” Only if “Alternative Standard” is “YES” and “Solvent/Air Interface Area” is “NONE”.

**MACHINE CLEANING CAPACITY:** Enter one of the following codes for solvent degreasing machine capacity.

<u>Code</u>	<u>Description</u>
780-	Capacity is less than or equal to 780 gallons (2.95 cubic meters)
780+	Capacity is greater than 780 gallons (2.95 cubic meters)

▼ Continue only if “Alternative Standard” is “NO.”

**MACHINE EXHAUST:** Select one option that describes the exhaust being used by the solvent cleaning machine. Enter the code on the form.

<u>Code</u>	<u>Description</u>
LIP	Solvent cleaning machine uses a lip exhaust
OTHER	Solvent cleaning machine uses an exhaust, internal to the machine, other than a lip exhaust
NONE	Solvent cleaning machine uses no exhaust internal to the machine

*Note: If “Machine Exhaust” is “LIP” or “OTHER,” the “Control Combination” selected must include a carbon adsorption system or if “Control Combination” is “IDLE10” or “IDLE22,” then “§ 63.466(a)-(e) Controls” and “Carbon Adsorber” must be “YES.”*

**CONTROL COMBINATIONS:** Select one option that describes the control combination or compliance option being used by the solvent cleaning machine. Enter the code on the form.

For batch vapor solvent cleaning machines with a solvent air interface of 13 square feet or less complying with the requirements of 40 CFR § 63.463(b)(1)(i) or § 63.463(b)(1)(ii):

<u>Code</u>	<u>Description</u>
TABLE1-1	Solvent cleaning machine uses a working mode cover, freeboard ratio of 1.0 and superheated vapor
TABLE1-2	Solvent cleaning machine uses a freeboard refrigeration device and superheated vapor
TABLE1-3	Solvent cleaning machine uses a working mode cover and freeboard refrigeration device
TABLE1-4	Solvent cleaning machine uses a reduced room draft, freeboard ratio of 1.0 and superheated vapor
TABLE1-5	Solvent cleaning machine uses a reduced room draft and freeboard refrigeration device
TABLE1-6	Solvent cleaning machine uses a freeboard refrigeration device and a freeboard ratio of 1.0
TABLE1-7	Solvent cleaning machine uses a freeboard refrigeration device and dwell
TABLE1-8	Solvent cleaning machine uses a reduced room draft, freeboard ratio of 1.0 and dwell
TABLE1-9	Solvent cleaning machine uses a freeboard refrigeration device and a carbon adsorber
TABLE1-10	Solvent cleaning machine uses a freeboard ratio of 1.0, superheated vapor and a carbon adsorber
IDLE22	Demonstrating compliance with the 0.22 kg/hr per square meter (0.045 lb/hr per square foot) of solvent air interface as specified in 40 CFR § 63.463(b)(1)(ii) or § 63.463(b)(2)(ii)

For batch vapor solvent cleaning machines with a solvent air interface of greater than 13 square feet complying with the requirements of 40 CFR § 63.463(b)(2)(i) or § 63.463(b)(2)(ii):

<u>Code</u>	<u>Description</u>
TABLE2-1	Solvent cleaning machine uses a freeboard refrigeration device, freeboard ratio of 1.0 and superheated vapor
TABLE2-2	Solvent cleaning machine uses a reduced room draft, freeboard refrigeration device and dwell
TABLE2-3	Solvent cleaning machine uses a working mode cover, freeboard refrigeration device and superheated vapor
TABLE2-4	Solvent cleaning machine uses a reduced room draft, freeboard ratio of 1.0 and superheated vapor
TABLE2-5	Solvent cleaning machine uses a reduced room draft, freeboard refrigeration device and superheated vapor
TABLE2-6	Solvent cleaning machine uses a reduced room draft, freeboard ratio of 1.0 and a freeboard refrigeration device
TABLE2-7	Solvent cleaning machine uses a freeboard refrigeration device, superheated vapor and a carbon adsorber
IDLE22	Demonstrating compliance with the 0.22 kg/hr per square meter (0.045 lb/hr per square foot) of solvent air interface as specified in 40 CFR § 63.463(b)(1)(ii) or § 63.463(b)(2)(ii)

For existing in-line solvent cleaning machines:

<u>Code</u>	<u>Description</u>
TABLE3-1	Solvent cleaning machine uses superheated vapor and a freeboard ratio of 1.0
TABLE3-2	Solvent cleaning machine uses a freeboard refrigeration device and a freeboard ratio of 1.0

TABLE3-3	Solvent cleaning machine uses a freeboard refrigeration device and dwell
TABLE3-4	Solvent cleaning machine uses a carbon adsorber and dwell
IDLE10	Demonstrating compliance with the 0.10 kg/hr per square meter (0.021 lb/hr per square foot) of solvent air interface as specified in 40 CFR § 63.463(c)(1)(ii) or § 63.463(c)(2)(ii)

For new in-line solvent cleaning machines:

<u>Code</u>	<u>Description</u>
TABLE4-1	Solvent cleaning machine uses superheated vapor and a freeboard refrigeration device
TABLE4-2	Solvent cleaning machine uses a freeboard refrigeration device and a carbon adsorber
TABLE4-3	Solvent cleaning machine uses superheated vapor and a carbon adsorber
IDLE10	Demonstrating compliance with the 0.10 kg/hr per square meter (0.021 lb/hr per square foot) of solvent air interface as specified in 40 CFR § 63.463(c)(1)(ii) or § 63.463(c)(2)(ii)

For existing continuous web solvent cleaning machines:

<u>Code</u>	<u>Description</u>
SVAPOR+1	Superheated vapor and a freeboard ratio of 1.0
SPART+1	Superheated part technology and a freeboard ratio of 1.0
FRD+1	Freeboard refrigeration device and a freeboard ratio of 1.0
CADS100	Carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
CADS70	Carbon adsorption system demonstrated to have an overall control efficiency of at least 70%

For new continuous web solvent cleaning machines:

<u>Code</u>	<u>Description</u>
SVAPFRD	Superheated vapor and a freeboard refrigeration device
SPARTFRD	Superheated parts technology and a freeboard refrigeration device
FRDCAD100	Freeboard refrigeration device and a carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
VPRCAD100	Superheated vapor and a carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
PTCAD100	Superheated part technology and a carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
CADS70	Carbon adsorption system demonstrated to have an overall control efficiency of at least 70%

For new remote reservoir continuous web solvent cleaning machines:

<u>Code</u>	<u>Description</u>
SVAPOR	Superheated vapor
SPART	Superheated part technology
CADS100	Carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
CADS70	Carbon adsorption system demonstrated to have an overall control efficiency of at least 70%

For existing remote reservoir continuous web solvent cleaning machines:

<u>Code</u>	<u>Description</u>
NOCAD	Existing remote reservoir continuous web solvent cleaning machine does not have an exhaust and is not required to equip with a carbon adsorption system
CADS100	Carbon adsorption system meeting the requirements of 40 CFR § 63.463(e)(2)(vii) (100 ppm exhaust concentration)
CADS70	Carbon adsorption system demonstrated to have an overall control efficiency of at least 70%

**ALTERNATIVE MONITORING PROCEDURE:** Enter “YES” if using an alternative monitoring procedure (AMP) approved by the EPA Administrator and using a control device in 40 CFR §§ 63.466(a) through (e). Otherwise, enter “NO.”

**AMP ID NO.:** If an AMP has been approved, enter the corresponding AMP unique identifier for each unit or process (maximum 10 characters). If the unique identifier is unavailable, then enter the date of the AMP approval letter. The unique identifier and/or the date of the approval letter is contained in the compliance file under the appropriate account number. Otherwise, leave this column blank.

★ **Complete “Superheated Part Monitoring” only if “Solvent Cleaning Machine Type” is “CWCM” and “Control Combination” is “SPART+1,” “SPARTFRD” or “PTCAD100” and “Alternate Monitoring Procedures” is “NO”;** or if “Solvent Cleaning Machine Type” is “RRCWCM,” and “Control Combination” is “SPART” and “Alternate Monitoring Procedures” is “NO.”

**SUPERHEATED PART MONITORING:** Enter “YES” if compliance with the monitoring provisions of 40 CFR § 63.466(a)(4) is selected. Otherwise, enter “NO.”

**Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart T: National Emission Standards for Halogenated Solvent Cleaning**

**UNIT ID NO.:** Enter the identification number (ID No.) for the solvent cleaning machine (maximum 10 characters) as listed on Form OP-SUM entitled, “Individual Unit Summary.”

**SOP INDEX NO.:** Site operating permit (SOP) applicants should indicate the SOP index number for the unit or group of units (maximum 15 characters consisting of numeric, alphanumeric characters, and/or dashes prefixed by a code for the applicable regulation [i.e., 60KB-XXXX]). For additional information relating to SOP index numbers, please refer to the TCEQ guidance document entitled “Federal Operating Permit Application Guidance Document.”

★ **Complete “Air Disturbance Control Option” only if “Solvent Cleaning Machine Type” is “CWCM”, “INLN”, “VOTB”, or “VBAT.”**

**AIR DISTURBANCE CONTROL OPTION:** Select one option that describes how the solvent cleaning machine is complying with the requirement to control air disturbance as specified in 40 CFR § 63.463(a)(1) or § 63.463(g)(3)(i). Enter the code on the form.

For in-line or batch vapor solvent cleaning machines:

<u>Code</u>	<u>Description</u>
RRD	Using reduced room draft and monitoring and controlling room parameters
RRDENCL	Using reduced room draft achieved through use of a partial or total enclosure
COVER	Using an idling or downtime cover

For continuous web solvent cleaning machines:

<u>Code</u>	<u>Description</u>
RRD	Using reduced room draft and monitoring and controlling room parameters
RRDENCL	Using reduced room draft achieved through use of a partial or total enclosure
COVER	Using an idling or downtime cover
GASKET	Using gasketed or leakproof doors to separate the continuous web part feed and take-up reels from the room atmosphere
PRESS-	Machine is under negative pressure during idling and downtime and is vented to a carbon adsorber meeting the requirements of 40FR § 63.463(e)(2)(vii) or § 63.463(g)(2)

★ **Complete “Continuous Web Work Practice Option” only if “Solvent Cleaning Machine Type” is “CWCM” or “RRCWCM.”**

**CONTINUOUS WEB WORK PRACTICE OPTION:** Select one option that describes how the solvent cleaning machine is complying with the requirements of 40 CFR § 63.463(g)(3)(iii) or § 63.463(h)(2)(i). Enter the code on the form.

<u>Code</u>	<u>Description</u>
SPEED	Using an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters/minute (11 feet/minute) or less
AKNIFE	Using an air knife system
SQUEEG	Using a squeegee system
BOTH	Using both an air knife and squeegee system

★ **Complete “§ 63.466(a)-(e) Control” only if “Control Combination” is “IDLE22” or “IDLE10.”**

**§ 63.466(a)-(e) CONTROL:** Enter “YES” if the solvent cleaning machine is using any of the controls in 40 CFR § 63.466(a)-(e). Otherwise, enter “NO.”

▼ **Continue only if “Control Combination” is “IDLE22” or “IDLE10” and “§ 63.466(a)-(e) Control” is “YES.”**

**FREEBOARD REFRIGERATION DEVICE:** Enter “YES” if the solvent cleaning machine is using a freeboard refrigeration device. Otherwise, enter “NO.”

WORKING MODE COVER: Enter "YES" if the solvent cleaning machine is using a working mode cover. Otherwise, enter "NO."

DWELL: Enter "YES" if the solvent cleaning machine is using a dwell. Otherwise, enter "NO."

SUPERHEATED VAPOR: Enter "YES" if the solvent cleaning machine is using superheated vapor. Otherwise, enter "NO."

CARBON ADSORBER: Enter "YES" if the solvent cleaning machine is using a carbon adsorber. Otherwise, enter "NO."





**Texas Commission on Environmental Quality**  
**Solvent Degreasing Machine Attributes**  
**Form OP-UA16 (Page 2)**  
**Federal Operating Permit Program**

**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart T: National Emission Standards for Halogenated Solvent Cleaning**

<b>Date:</b>	<b>Permit No.:</b>	<b>Regulated Entity No.:</b>
<b>Area Name:</b>		<b>Customer Reference No.:</b>

Unit ID No.	SOP Index No.	Solvent Type	Solvent Cleaning Machine Type	Equivalent Methods of Control	EMOC ID NO.	Construction Date	Cold Cleaning Emission Control	Cold Cleaning Work Practice Alternative	Cold Cleaning Work Practice Alternative ID No.	Additional Emission Control



